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ABSTRACT OF THE DISCLOSURE

A process for manufacturing an electric cable. In particular, the process includes the steps of: a) feeding a conductor at a predetermined feeding speed; b) extruding a thermoplastic insulating layer in a radially outer position with respect to the conductor; c) cooling the extruded insulating layer at a temperature not higher than 70°C; and d) forming a circumferentially closed metallic screen around the extruded insulating layer. The process is carried out continuously, i.e., the time occurring between the end of the cooling step and the beginning of the screen forming step is inversely proportional to the feeding speed of the conductor.